

Title (en)  
Method for detecting the bad positioning and the surface defects of specific components and associated detection device

Title (de)  
Verfahren zur Erkennung von schlechter Positionierung und Oberflächenfehlern spezifischer Komponenten und zugehörige Erkennungsvorrichtung

Title (fr)  
Procédé pour détecter le mauvais positionnement et les défauts de surface de composants spécifiques et dispositif de détection associé

Publication  
**EP 2998927 A1 20160323 (EN)**

Application  
**EP 14306454 A 20140922**

Priority  
EP 14306454 A 20140922

Abstract (en)  
A method for detecting the bad positioning and the surface defects of a specific component of a vehicle in motion, comprising: - scanning the region surrounding a specific component of a vehicle in motion on a rail road to obtain a three dimensional representation of the region surrounding the specific component, - aligning the three dimensional representation with a surrounding three dimensional model of the region surrounding the specific component to obtain a roughly aligned three dimensional representation, characterized in that, the method also comprises : - aligning the roughly aligned three dimensional representation with a specific three dimensional model of the specific component to obtain an accurately aligned three dimensional representation and an accurate rigid transformation, and - analyzing the bad positioning and the surface defects of the specific component.

IPC 8 full level  
**G06T 7/00** (2006.01); **G06K 9/00** (2006.01)

CPC (source: EP)  
**G06T 7/0004** (2013.01); **G06V 20/653** (2022.01); **G06T 2207/30156** (2013.01); **G06V 2201/06** (2022.01)

Citation (search report)  
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Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 2998927 A1 20160323**; **EP 2998927 B1 20180905**; ES 2700998 T3 20190220; PL 2998927 T3 20190531

DOCDB simple family (application)  
**EP 14306454 A 20140922**; ES 14306454 T 20140922; PL 14306454 T 20140922